

CLIMATOLOGICAL DATA FOR AUGUST, 1912.

DISTRICT No. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

August, 1912, was cooler than the average August. With the exception of August, 1911, the mean temperature for the State as a whole was lower than that of any similar month since records have been kept. The month is normally one of high afternoon temperature, much sunshine, except along the coast, and little rain. This month there was a little more rain than during August, 1911, or August, 1910, and there was less sunshine, except at San Francisco, Sacramento, and San Jose. There were no excessively high temperatures, that is, temperatures exceeding 120°. In this respect the month closely resembled last August.

The month was a pleasant one, and notwithstanding unusually low water in the rivers, mountain streams, and watercourses lessened their attractiveness, visitors and tourists were not subjected to inconveniences due to heat on the one hand or thunderstorms and cloudbursts on the other. During August, 1911, the waterfalls were running full; but this year during the same period the volume of moving water was small and the streams lower than has been known for many years. There was very little snow in the mountains, even in those places where the snow usually remains throughout the year.

The weather was favorable for crops, although the season was a late one and fruits did not ripen as early or as abundantly as in previous seasons.

There were no unusual features connected with pressure distribution or storm movement. At the beginning of the month a slow-moving depression over the Great Basin resulted in unsettled weather and occasional thunderstorms in the Sierra. A moderate warm spell occurred on August 6, when afternoon temperatures reached 100° at Sacramento, 102° at Red Bluff and 104° at Fresno. This was followed by a succession of pleasant days without extreme conditions. On August 24, instead of the usual inversion of temperature so characteristic of the coast section near San Francisco Bay, there occurred a marked cooling at a height of 3,000 feet. Surface temperatures were approximately 10° higher than the temperatures at the height mentioned. Usually they are 10° or more lower. The condition was followed by cloudy weather along the coast, but no rain, and the return to usual conditions occurred August 29.

The only other feature of interest was rain at San Diego August 29 and 30.

The usual summer depression over the Valley of the Colorado was less extensive and less deep than might have been expected, and with the exception of a disturbance near the close of the month, there were no Sonora storms.

TEMPERATURE.

The temperature for the State was 2.6° below the normal. The following table gives the mean temperature for California for each August during the time for which records have been kept.

The highest temperature recorded was 115° at Indio on the 7th. The highest temperature reported at any station in California last August was 114° at Mammoth.

The lowest temperature was 20° at Madeline on the 20th. This was 8° lower than the lowest recorded during August, 1911. The highest mean temperature was 96.3° at Bagdad. It is interesting to notice that the mean temperature at Greenland Ranch, our new station in Death Valley, was 96°. Another high mean temperature was 93.8° at Mammoth Tank. The stations at which these high temperatures occurred are respectively in the Mojave Desert, the Death Valley section, and the Salton Desert. The highest mean temperature last August was 96.6° at Bagdad, and nearly all the stations in the Colorado Desert had mean temperatures in excess of 90°. The lowest mean temperature was 51.6° at Summit, Placer County.

Years.	Mean.	Departure.	Years.	Mean.	Departure.
	° F.	° F.		° F.	° F.
1897.....	73.9	+1.1	1905.....	73.4	+0.6
1898.....	74.5	+1.7	1906.....	73.6	+0.8
1899.....	70.8	-2.0	1907.....	71.0	-1.8
1900.....	71.0	-1.8	1908.....	73.3	+0.5
1901.....	75.6	+2.8	1909.....	72.1	-0.7
1902.....	71.8	-1.0	1910.....	72.5	-0.3
1903.....	72.6	-0.2	1911.....	70.1	-2.7
1904.....	73.9	+1.1	1912.....	70.2	-2.6

PRECIPITATION.

The average monthly precipitation for California for August with departures from the normal is as follows:

Years.	Mean.	Departure.	Years.	Mean.	Departure.
	Inch.	Inch.		Inch.	Inch.
1897.....	0.63	-0.05	1905.....	0.03	-0.05
1898.....	.02	-0.06	1906.....	.13	+0.05
1899.....	.11	+0.03	1907.....	.11	+0.03
1900.....	.02	-0.06	1908.....	.12	+0.04
1901.....	.12	+0.04	1909.....	.19	+0.11
1902.....	.06	-0.02	1910.....	.01	-0.07
1903.....	.02	-0.06	1911.....	.00	-0.03
1904.....	.17	+0.09	1912.....	.06	-0.02

The greatest monthly precipitation was 1.05 inches at Nellie. Two hundred stations reported no rain during the month.

SUNSHINE.

The following table gives the total hours of sunshine and percentages of the possible:

Stations.	Hours.	Percentage of possible.	Stations.	Hours.	Percentage of possible.
Eureka.....	115	27	Sacramento.....	422	100
Fresno.....	416	99	San Diego.....	281	68
Los Angeles.....	319	77	San Francisco.....	335	79
Mount Tamalpais.....	402	95	San Jose.....	364	87
Red Bluff.....	396	93	San Luis Obispo.....	329	79

NOTES ON THE RIVERS OF THE SACRAMENTO AND LOWER SAN JOAQUIN WATERSHEDS DURING AUGUST, 1912.

By N. R. TAYLOR, Local Forecaster.

Sacramento watershed.—The rivers of this watershed continued to fall slowly during the month and, at most points, all previous low-water records were broken.

TABLE 1.—Climatological data for August, 1912. District No. 11, California.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of overcast days), Prevailing wind direction, and Observers. Rows include stations like Klamath Agency, Alameda, Alturas, etc., across various counties in Oregon and California.

TABLE 1.—Climatological data for August, 1912. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		Number of cloudy days.	Prevailing wind direction.
California—Continued.																			
Idyllwild.....	Riverside.....	5,250	11															Earl Powers.	
Independence.....	Inyo.....	3,907	16															U. S. Weather Bureau.	
Indio.....	Riverside.....	20	34	89.1	- 3.9	115	7	62	19	38	0.00	- 0.17	0.00	0	0	29	0	F. N. Johnson.	
Inskip.....	Butte.....	4,975	5	65.2		86		42	29	28	0.00		0.00	0	0	13	17	1	Cal. Gas & Elec. Co.
Ione**.....	Amador.....	287	34	77.1	- 1.0	106	7	52	30	47	0.00	0.00	0.00	0	0	31	0	0	Southern Pacific Co.
Jamestown.....	Tuolumne.....	1,471	9	71.2		100	6†	43	29	45	0.00		0.00	0	0	31	0	0	Sierra Railway Co.
Kennett.....	Shasta.....	730	24	77.4		106		53	25	47	0.00		0.00	0	0	21	10	0	O. J. Egleston.
Kentfield.....	Marin.....	65	24	65.1		94	6	44	30	46	0.00	0.00	0.00	0	0	25	4	2	Miss M. E. Parsons.
King City.....	Monterey.....	333	25	80.1	+ 13.0	103		51	30	39	0.00	0.00	0.00	0	0	31	0	0	Southern Pacific Co.
Lake Eleanor.....	Tuolumne.....	4,700	2	63.2		91	6†	36	30	43	0.00		0.00	0	0	29	2	0	O. J. Todd.
La Porte.....	Plumas.....	5,000	18	57.4	- 3.9	88	10	31	19	52	0.00	- 0.16	0.00	0	0	19	12	0	Chas. W. Hendel.
Le Grand.....	Merced.....	255	12	73.4	- 3.8	106		45	31	45	0.00	0.00	0.00	0	0	31	0	0	Santa Fe Co.
Lemon Cove.....	Tulare.....	600	17	79.2	- 0.8	108	7	51	29	46	0.00	0.00	0.00	0	0	31	0	0	G. W. Sandidge.
Lick Observatory.....	Santa Clara.....	4,209	23	64.6	- 4.8	84	6	41	29	29	0.00	- 0.02	0.00	0	0	31	0	0	The Director.
Livermore.....	Alameda.....	485	41																E. G. Still.
Lodi.....	San Joaquin.....	45	30	71.4	- 1.6	101	6	47	29†	41	0.00	- 0.03	0.00	0	0	31	0	0	sw.
Lone Pine.....	Inyo.....	2,728	7	70.0		95	7†	40	31	49	0.00		0.00	0	0	30	1	0	G. F. Fiske.
Long Valley.....	Lassen.....	4,400	3	69.0		95		37	30	45	0.36		0.20	0	4	9	13	9	sw.
Los Angeles.....	Los Angeles.....	293	35	69.2	+ 0.6	88	7	52	3	32	0.00	- 0.03	0.00	0	0	19	12	0	A. G. Evans.
Los Banos**.....	Merced.....	121	25	77.3	- 1.5	101	7	62	31	37	0.00	- 0.01	0.00	0	0	30	0	1	U. S. Weather Bureau.
Los Gatos.....	Santa Clara.....	600	25	66.7	- 0.5	95	6†	45	29	43	0.00	- 0.05	0.00	0	0	29	2	0	Southern Pacific Co.
McCloud.....	Siskiyou.....	3,410	2	59.6		83		34	16	39	0.12		0.09	0	2	24	7	0	F. F. Spencer.
MacDoel.....	do.....	4,528	7	57.7		91	23	21	16	64	0.67		0.48	0	2	10	0	21	n.
Madeline.....	Lassen.....	5,270	3	60.0		90	7†	20	29	52	0.16		0.07	0	4	17	12	2	w.
Magalia.....	Butte.....	2,321	8	69.6		96	7	40	28	41	0.00		0.00	0	0	31	0	0	sw.
Mammoth Tank.....	Imperial.....	257	34	93.8	- 3.0	114	5†	64	29	40	0.00	- 0.34	0.00	0	0	28	1	2	w.
Maricopa.....	Kern.....	640	1	79.4		105	7	56	29	34	0.00		0.00	0	0	29	2	0	e.
Marysville.....	Yuba.....	67	41	74.8	- 4.1	105	6	45	30	47	0.00	- 0.01	0.00	0	0	31	0	0	Southern Pacific Co.
Mecca.....	Riverside.....	185	6	87.5		112	6†	62	18	46	0.28		0.18	0	2	24	7	0	sw.
Menlo Park**.....	San Mateo.....	64	34																Southern Pacific Co.
Merced.....	Merced.....	173	38	77.4	- 1.9	105	7	52	31	36	0.00	- 0.02	0.00	0	0	31	0	0	sw.
Middlewater.....	Kern.....	1	1																Santa Fe Co.
Mill Creek (1).....	Amador.....	5	5	63.8		90	6†	40	26†	38	0.00		0.00	0	0	31	0	0	n.
Milton (near).....	Calaveras.....	660	21	74.4	- 1.9	103	7	50	29	37	0.00	- 0.01	0.00	0	0	30	1	0	sw.
Modesto**.....	Stanislaus.....	90	40	82.7	+ 3.0	100	6†	65	1†	39	0.00	0.00	0.00	0	0	31	0	0	J. H. Southwick.
Mojave.....	Kern.....	2,751	35	79.2	- 5.0	98	7	63	29	26	0.00	- 0.09	0.00	0	0	27	4	0	Do.
Mokelumne Hill.....	Calaveras.....	1,550	19	72.9	- 1.3	99	7	47	29	33	0.00	- 0.02	0.00	0	0	28	0	3	C. E. Prindle.
Mono Ranch.....	Ventura.....	3,210	6	63.6		89	7†	41	29†	41	0.00		0.00	0	0	31	0	0	Herbert Lathrop.
Montague.....	Siskiyou.....	2,450	24	66.1	- 9.2	97	23	35	30	52	0.34	+ 0.13	0.24	3	16	13	2	0	I. E. Deboy.
Monterey.....	Monterey.....	15	47	65.0	+ 3.1	78	6†	56	18†	37	0.00	- 0.02	0.00	0	0	31	0	0	sw.
Monterey.....	Kern.....	4,500	13	70.0	- 6.4	96	11	48	27†	30	0.00	- 0.16	0.00	0	0	30	1	0	nw.
Mount Tamalpais.....	Marin.....	2,375	13	64.4	- 1.5	87	6	46	29	20	0.00	- 0.01	0.00	0	0	28	3	0	John C. Knecht.
Napa City.....	Napa.....	20	35	62.2	- 2.5	95	6	40	23†	49	0.00	- 0.02	0.00	0	0	20	11	0	U. S. Weather Bureau.
Napa (S. H.).....	do.....	60	34																Alex. Hall.
Needles.....	San Bernardino.....	477	20	87.4	- 5.3	108	8	65	31	34	0.15	- 0.44	0.14	0	2	29	1	1	W. H. Martin.
Nellie.....	San Diego.....	5,350	3	72.2		91	13	45	19†	36	1.05		1.05	0	1	29	0	2	Santa Fe Co.
Nevada City.....	Nevada.....	2,580	20	65.2	- 2.9	98	7	35	30	49	0.00	- 0.05	0.00	0	0	29	2	0	sw.
Newhall**.....	Los Angeles.....	1,200	35	72.0	- 5.3	101	6	58	31	49	0.00	- 0.03	0.00	0	0	31	0	0	sw.
Newman.....	Stanislaus.....	91	23	76.4	- 3.8	106	7	49	16†	43	0.00	- 0.02	0.00	0	0	31	0	0	E. S. Wangenheim.
North Bloomfield.....	Nevada.....	3,214	15	68.6	- 1.8	95	6†	45	29	39	0.00	- 0.06	0.00	0	0	28	2	1	J. R. McIntosh.
North Fork.....	Madera.....	3,000	8																U. S. Forest Service.
Oakdale**.....	Stanislaus.....	156	18	77.2	+ 1.0	103	6†	58	1†	37	0.00	- 0.01	0.00	0	0	31	0	0	Southern Pacific Co.
Oak Grove.....	San Diego.....	2,751	2	69.0		100	5†	41	4†	56	0.29		0.29	0	1	25	5	1	nw.
Oakland.....	Alameda.....	36	36	63.6	+ 2.3	80	7	51	29	25	0.00	- 0.03	0.00	0	0	15	14	2	w.
Oceanside.....	San Diego.....	60	2	72.2		81	29	55	6	23	0.05		0.05	0	1	21	9	1	Chabot Observatory.
Ojai Valley.....	Ventura.....	900	6	68.5		102	6	43	28	50	0.00		0.00	0	0	31	0	0	H. D. Brodie.
Orland.....	Glenn.....	254	30	77.0	- 7.2	106	6	51	28	44	0.00	- 0.02	0.00	0	0	26	5	0	sw.
Orleans.....	Humboldt.....	520	9	74.4		103	12	45	3	49	T.		T.	0	0	30	1	0	U. S. Reclamation Service.
Oroville (near).....	Butte.....	250	28	75.0	- 3.6	107	6	50	28†	45	0.00	- 0.02	0.00	0	0	27	3	1	F. T. Hale.
Palermo.....	do.....	213	21	75.8	- 0.8	102	10	48	9†	44	0.00	- 0.03	0.00	0	0	21	8	2	E. D. Fairchild.
Palm Springs**.....	Riverside.....	584	23																Western Pacific Co.
Pasadena.....	Los Angeles.....	827	22	68.1	- 5.4	97	5†	43	28	45	0.00	- 0.02	0.00	0	0	28	2	1	Southern Pacific Co.
Paso Robles.....	San Luis Obispo.....	800	25	67.4	- 2.8	106	7†	31	60	0.00	- 0.07	0.00	0	0	31	0	0	sw.	
Peachland.....	Sonoma.....	190	16	63.9	+ 0.2	100	6	39	22†	54	0.01	- 0.02	0.01	0	1	26	5	0	Dr. F. W. Sawyer.
Placerville.....	El Dorado.....	1,875	23	66.8	- 3.1	96	6	42	30	42	0.00	- 0.03	0.00	0	0	31	0	0	E. H. Parnell.
Point Lobos.....	San Francisco.....	250	19	58.2	+ 0.7	73	7	49	4	22	0.00	- 0.03	0.00	0	0	9	12	10	A. Baring-Gould.
Point Reyes.....	Marin.....	490	20	54.7	+ 0.1	64	27	49	6	14	0.00	- 0.08	0.00	0	0	11	10	10	John Hyslop.
Porterville.....	Tulare.....	464	23	78.9	- 3.7	106	7	50	30	43	0.00	- 0.01	0.00	0	0	31	0	0	U. S. Weather Bureau.
Quincy.....	Plumas.....	3,400	17	61.3	- 2.4	90	23	28	30	52	0.20	+ 0.04	0.20	0	1	26	5	0	Leslie McAuliff.
Red Bluff.....	Tehama.....	307	35	76.9	- 4.1	102	6	54	29	37	0.00	- 0.02	0.00	0	0	24	7	0	U. S. Forest

TABLE 1.—Climatological data for August, 1912. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.			Number of partly cloudy days.	Number of cloudy days.
<i>California—Continued.</i>																				
Santa Maria.....	Santa Barbara.....	220	24	63.0	- 1.8	81	22	43	23	36	0.00	- 0.04	0.00	0	0	31	0	0	w.	Edwin Morris.
Santa Monica.....	Los Angeles.....	110	27	62.2	- 6.2	75	7	50	3†	25	0.00	- 0.04	0.00	0	0	22	9	0	w.	N. D. Ingham.
Santa Rosa.....	Sonoma.....	181	23	65.4	+ 0.2	96	6	40	29	49	0.00	- 0.01	0.00	0	0	29	2	0	s.	Southern Pacific Co.
Selma **.....	Fresno.....	311	26	77.7	+ 4.8	102	6	65	14†	...	0.00	0.00	0.00	0	0	31	0	0	Do.	M. Lewis.
Seven Oaks.....	San Bernardino.....	5,000	2	64.0	- 8.0	101	22	47	6†	51	0.00	- 0.05	0.00	0	0	31	0	0	nw.	Dr. T. J. Edgecomb.
Shasta.....	Shasta.....	1,048	15	71.0	- 1.6	97	6	54	2	38	0.00	- 0.07	0.00	0	0	29	0	2	s.	Mrs. A. E. Gregory.
Sierra Madre.....	Los Angeles.....	1,400	2	59.2	- 0.5	90	6†	25	30	57	0.21	0.21	0.21	0	1	25	4	2	sw.	C. D. Johnson.
Sierraville.....	Sierra.....	5,000	23	62.1	- 0.5	87	11	35	18†	49	0.56	+ 0.23	0.56	0	1	21	3	7	s.	Southern Pacific Co.
Sisson.....	Siskiyou.....	3,555	23	62.4	+ 3.3	88	5	57	13†	...	0.00	- 0.00	0.00	0	0	31	0	0	n.	Do.
Soledad **.....	Monterey.....	183	93	68.4	- 0.3	96	7	48	30	41	0.00	- 0.04	0.00	0	0	30	1	0	w.	Chas. P. Jones.
Sonora.....	Tuolumne.....	1,825	24	71.7	- 0.9	96	7	50	3	10	0.00	0.00	0.00	0	0	14	12	5	nw.	U. S. Weather Bureau.
Southeast Farallon.....	San Francisco.....	4,000	5	67.6	- 0.1	61	6†	45	31	35	0.00	0.00	0.00	0	0	30	1	0	Do.	D. L. Wishon.
Springville.....	Tulare.....	5,280	2	63.3	- 0.2	82	5†	41	18	32	0.31	0.31	0.31	0	1	29	1	1	s.	A. D. Frantz.
Squirrel Inn.....	San Bernardino.....	2,140	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Cal. Gas & Elec. Co.
Stanwood.....	Butte.....	3,525	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Butte Co. R. R. Co.
Stirling City.....	do.....	23	41	70.9	- 1.6	98	6†	50	1†	38	0.00	- 0.01	0.00	0	0	29	2	0	nw.	State Hospital.
Stockton (S. H.).....	San Joaquin.....	296	12	74.2	- 2.8	104	7	45	30	47	0.00	- 0.00	0.00	0	0	31	0	0	Do.	Santa Fe Co.
Storey.....	Madera.....	20	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Southern Pacific Co.
Suisun **.....	Solano.....	1,350	...	70.8	- 2.7	87	6	42	30	31	0.00	- 0.13	0.00	0	0	29	1	1	w.	J. T. La Bree.
Sulphur Banks.....	Lake.....	5,270	16	64.4	- 8.7	68	16†	27	26	34	0.00	- 0.11	0.00	0	0	31	0	0	nw.	Bertus Gude, jr.
Summerdale.....	Mariposa.....	7,017	39	51.6	- 6.4	89	7	34	30	41	0.22	- 0.03	0.11	0	3	23	8	0	sw.	Southern Pacific Co.
Summit.....	Placer.....	4,175	23	62.6	- 0.3	86	4	64	22	...	0.00	- 0.15	0.00	0	0	29	2	0	sw.	James Branham.
Susanville.....	Lassen.....	8,000	6	54.0	- 0.3	78	6†	32	3	40	0.00	- 0.04	0.00	0	0	21	10	0	sw.	Cal. Gas & Electric Co.
Tamarack.....	Alpine.....	3,964	35	74.8	+ 0.3	86	4	64	22	...	0.00	- 0.15	0.00	0	0	29	2	0	Do.	Southern Pacific Co.
Tehachapi **.....	Kern.....	2,200	41	74.4	- 6.9	98	7	58	17†	...	0.00	- 0.04	0.00	0	0	26	1	4	s.	Do.
Tehama.....	Tehama.....	1,500	10	71.6†	- 0.9	92	19	45	16	25	0.00	0.00	0.00	0	0	31	0	0	Do.	S. E. Bailey.
Tejon Rancho.....	Kern.....	870	2	74.2	- 1.2	92	4†	42	31	48	0.00	- 0.01	0.00	0	0	26	0	5	sw.	E. D. Barton.
Three Rivers.....	Tulare.....	3,704	26	69.7	+ 1.7	104	7†	30	29	...	0.00	- 0.01	0.00	0	0	25	6	0	se.	Southern Pacific Co.
Towle.....	Placer.....	64	32	79.2	- 0.3	103	11	39	30	53	0.00	- 0.01	0.00	0	0	26	5	0	nw.	Do.
Tracy **.....	San Joaquin.....	620	19	70.4	- 3.5	100	6†	38	30	54	0.00	- 0.04	0.00	0	0	31	0	0	nw.	Dr. Geo. McCowen.
Ukiah.....	Mendocino.....	1,350	27	69.6	- 1.3	105	6	46	28	48	0.00	- 0.03	0.00	0	0	31	0	0	nw.	C. M. Hammond.
Upper Lake.....	Lake.....	175	24	73.2	- 0.5	102	6	61	27	...	0.00	- 0.01	0.00	0	0	31	0	0	sw.	G. C. Coburn.
Vacaville.....	Solano.....	673	23	77.4	- 8.0	102	11	40	26	51	0.00	- 0.01	0.00	0	0	31	0	0	nw.	Southern Pacific Co.
Valley Springs **.....	Calaveras.....	334	24	70.4	- 0.8	102	11	40	26	51	0.00	- 0.01	0.00	0	0	31	0	0	Do.	Santa Fe Co.
Visalia.....	Tulare.....	3,165	4	68.8	- 0.8	104	8	51	30	45	0.39	0.39	0.39	0	2	26	3	2	Do.	Mrs. F. S. Sandford.
Warner Springs.....	San Diego.....	336	12	78.8	- 5.8	84	8	30	30	51	0.00	- 0.01	0.00	0	0	9	21	1	sw.	Santa Fe Co.
Wasco.....	Kern.....	23	16	65.6	- 0.8	94	8	30	30	45	0.00	- 0.02	0.00	0	0	21	7	3	sw.	Spreckels Sugar Co.
Watsonville.....	Santa Cruz.....	65.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	U. S. Forest Service.
Weaverville.....	Trinity.....	1,700	2	64.3	- 2.9	103	6†	37	29	40	0.27	0.27	0.27	0	1	28	2	1	sw.	M. E. Lathrop.
Weitchpec.....	Humboldt.....	90	23	76.3	- 2.2	100	6†	47	30	40	0.00	- 0.00	0.00	0	0	31	0	0	n.	Southern Pacific Co.
Westley **.....	Stanislaus.....	54	25	72.9	- 1.7	107	6	48	30	40	0.00	- 0.03	0.00	0	0	21	10	0	nw.	William Lumbard.
Wheatland.....	Yuba.....	136	33	79.9	- 1.7	107	6	48	27†	34	0.00	- 0.03	0.00	0	0	27	4	0	se.	E. C. Mills.
Willows.....	Glenn.....	3,945	8	65.6	- 1.7	99	7	33	30	57	0.00	0.00	0.00	0	0	31	0	0	s.	J. P. Kelley.
Yosemite.....	Mariposa.....	3,945	8	65.6	- 1.7	99	7	33	30	57	0.00	0.00	0.00	0	0	31	0	0	s.	J. P. Kelley.

*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.
 ** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
 † Also on other dates.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—Daily precipitation for August, 1912. District No. 11—Continued.

Stations.	Watershed.	Day of month.																														Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
<i>California—Contd.</i>																																	
Summit (2)	Coast																																
Susanville	M't'n Lakes	.11		.05																													
Tamarack	Sacramento																																
Tehachapi	San Joaquin																																
Tehama	Sacramento																																
Tejon Rancho	San Joaquin																																
Three Rivers	do																																
Towle	Sacramento																																
Tracy	San Joaquin																																
Tulare	do																																
Tustin (near)	Coast																																
Ukiah	do																																
Upland	do																																
Upper Lake	Sacramento																																
Upper Matole	Coast																																
Vacaville	Sacramento																																
Valley Springs	San Joaquin																																
Visalia	do																																
Warner Springs	Coast																																
Wasco	San Joaquin																																
Watsonville	Coast																																
Weaverville	do																																
Weitchpec	Klamath																																
West Branch	Sacramento																																
Westley	San Joaquin																																
West Point	do																																
West Saticoy	Coast																																
Wheatland	Sacramento																																
Willows	do																																
Yosemite	San Joaquin																																

* Precipitation included in that of the next measurement.
 † Separate dates of falls not recorded.
 ‡ Precipitation for the 24 hours ending on the morning when it is measured.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1912. District No. 11, California.

Date.	Lakeview, Oreg.		California.																									
			Alturas. §§		Barstow.		Branscomb.		Brawley.		Colusa.		Eureka.		Fresno.		Independence.		Los Angeles.		Mount Tamalpais.		Nevada City.		Porterville.		Red Bluff.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....			79	55	91	61	77	45	103	70	85	54	60	54	88	58			74	57	67	52	81	44	100	57	88	58
2.....			80	42	92	65	78	46	104	70	86	55	57	54	92	61			77	57	71	59	81	46	97	60	88	64
3.....			76	50	92	64	79	45	105	65	89	55	62	53	94	58			77	52	74	57	85	44	96	59	92	62
4.....			86	43	95	65	82	46	108	68	95	60	59	52	99	65			81	52	82	65	89	45	99	60	97	67
5.....			88	47	96	64	87	47	108	65	95	62	56	52	103	66			87	55	82	67	91	46	104	63	98	66
6.....			90	47	99	67	86	45	110	73	99	62	57	51	104	67			87	59	87	71	94	47	104	62	102	69
7.....			94	48	105	60	86	48	110	69	98	65	62	52	106	71			88	63	83	65	98	49	106	64	102	73
8.....			88	53	104	68	85	45	110	75	94	64	67	54	97	69			82	58	67	54	86	47	101	64	92	71
9.....			82	49	103	70	88	48	108	67	90	58	61	53	92	60			81	60	65	55	87	45	101	59	87	63
10.....			86	43	100	70	89	49	108	65	92	60	66	52	94	61			79	60	79	60	88	44	98	59	95	63
11.....			91	44	100	63	91	50	.....	.....	93	62	63	54	100	67			80	60	82	68	90	47	103	65	98	68
12.....			91	47	100	65	90	50	104	72	92	62	60	55	99	64			81	60	71	55	90	47	100	63	96	69
13.....			88	47	100	63	80	46	101	77	89	57	62	55	94	62			77	61	67	50	87	48	96	62	90	62
14.....			85	43	99	65	71	43	102	69	85	56	65	56	93	62			75	60	63	49	85	46	98	59	88	60
15.....			77	50	99	65	70	40	102	64	85	56	65	54	88	60			78	60	62	50	79	44	95	57	81	60
16.....			74	32	92	68	72	43	102	65	85	56	62	48	87	57			78	62	73	54	80	42	91	52	83	60
17.....			72	36	90	63	78	44	100	64	86	54	63	53	91	57			72	62	68	55	80	38	93	55	85	63
18.....			79	33	92	62	88	44	96	63	87	64	60	54	92	58			73	61	77	59	84	42	95	56	90	62
19.....			85	42	96	62	88	47	97	66	90	57	60	53	96	63			77	60	80	67	88	43	100	61	96	64
20.....			90	42	99	62	81	45	100	63	91	58	58	52	98	61			80	62	68	53	90	46	100	61	94	62
21.....			92	45	98	64	80	45	102	70	89	56	58	54	95	57			75	61	67	50	88	47	100	62	93	63
22.....			94	42	102	65	80	45	107	71	92	54	59	53	98	59			78	60	78	59	90	46	100	57	97	61
23.....			96	43	104	70	82	43	106	79	95	56	60	52	101	62			81	60	78	65	88	47	103	63	100	63
24.....			90	44	102	64	79	42	102	76	89	56	62	55	98	62			78	59	74	62	90	46	102	63	95	63
25.....			93	38	104	69	65	42	104	74	88	54	61	56	98	60			81	61	70	55	93	45	104	63	93	60
26.....			87	42	98	68	67	40	101	81	85	55	63	55	91	60			79	62	60	48	92	47	94	61	86	58
27.....			76	39	95	65	75	40	98	79	81	55	63	49	90	56			80	63	67	53	92	45	96	59	83	57
28.....			73	36	93	57	65	41	89	79	84	55	62	50	89	60			81	57	64	48	78	42	95	58	82	59
29.....			67	43	92	56	74	37	95	76	78	49	61	49	80	54			80	61	61	46	75	37	95	53	80	54
30.....			78	28	91	58	78	46	95	60	86	49	66	48	87	54			76	60	76	56	82	35	89	50	91	57
31.....			76	37	94	57	78	48	95	62	86	57	67	56	92	59			76	60	71	55	83	41	95	56	88	58
Mns.....			84.0	42.9	97.2	64.0	79.6	44.6	102.20	70.16	89.0	57.2	61.5	52.8	94.4	61.0			79.0	59.5	72.1	56.8	86.2	44.3	98.4	59.4	91.3	62.5

Date.	California.																									
	Redlands.		Sacramento.		San Diego.		San Francisco.		San Jose.		San Luis Obispo.		Santa Barbara.		Santa Rosa.		Sisson.		Stockton.		Summit.		Susanville.		Yosemite.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	86	53	81	53	68	63	64	52	77	57	69	55	68	51	78	52	80	48	82	50	61	44	74	56	89	47
2.....	85	54	80	54	71	61	59	52	77	56	70	53	70	50	80	46	80	46	83	54	60	44	77	46	89	47
3.....	92	50	91	54	71	62	66	52	83	53	72	52	69	52	85	47	81	49	87	53	60	40	78	47	95	40
4.....	99	53	96	61	72	61	73	52	89	50	93	48	70	53	89	45	81	51	93	60	64	39	80	46	92	42
5.....	101	56	96	60	76	56	69	50	88	49	93	50	83	53	94	42	82	42	96	58	63	44	85	50	95	41
6.....	102	57	101	63	76	56	76	51	90	52	94	49	84	53	96	47	82	43	98	62	65	43	87	49	96	41
7.....	101	60	98	65	79	57	77	53	90	53	91	53	85	52	94	51	83	46	98	66	63	41	89	63	99	44
8.....	95	59	86	61	72	62	64	53	76	52	84	51	72	52	89	51	84	47	87	64	61	43	83	51	94	44
9.....	97	56	82	57	72	64	62	53	75	51	76	49	74	57	81	46	85	46	82	58	62	41	80	50	89	42
10.....	90	52	93	59	69	62	71	52	85	50	74	48	70	56	90	50	86	45	91	56	64	44	82	48	89	41
11.....	90	52	94	61	69	62	65	52	87	54	75	49	72	57	87	53	87	44	94	60	61	45	85	46	90	41
12.....	89	53	84	56	72	62	65	53	85	54	71	49	71	57	85	53	83	46	85	58	65	45	87	47	92	41
13.....	88	54	79	54	73	65	63	55	73	54	70	52	68	54	73	52	82	45	82	54	66	42	80	48	93	43
14.....	88	54	80	55	72	66	66	56	73	53	74	52	73	55	78	52	80	44	81	55	67	43	86	49	90	41
15.....	85	60	81	55	70	63	68	55	73	50	77	50	73	54	83	44	78	41	80	56	66	45	75	48	89	40
16.....	85	54	84	59	68	62	69	56	78	48	76	52	74	52	86	46	64	46	83	54	68	42	69	38	84	32
17.....	80	59	85	54	68	62	67	53	80	48	69	44	66	54	88	45	75	38	84	56	62	32	72	42	80	35
18.....	83	58	87	57	68	62	66	53	82	52	71	53	70	54	86	45	73	35	88	54	63	37	71	35	88	35
19.....	87	56	91	56	69	61	67	52	85	49	66	51	65	54	85	45	78	46	90	55	62	40	77	42	90	35
20.....	90	57	86	55	71	58	63	53	77	52	72	53	72	56	73	51	79	47	84	56	65	39	81	47	90	38
21.....	91	53	85	54	72	60	64	54	77	50	72	46	74	51	78	52	85	45	81	54	68	40	83	49	90	40
22.....	92	56	92	53	72	65	62	52	76	55	74	49	76	50	81	44	86	46	89	52	66	45	85	47	95	38
23.....	94	58	93	57	73	63	61	51	74	51	76	49	74	58	79	44	85	46	90	56	67	41	87	47	98	44
24.....	94	58	87	54	72	62	65	54	74	51	75	51	78	57	80	50	86	45	86	54	68	46	85	48	98	44
25.....	94	58	87	53	68	64	66	55	73	47	83	50	73	54	80	44	86	45	85	54	66	43	85	44	97	43
26.....	88	59	78	54	68																					